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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/851,566	05/08/2001	Charles A. Miller	P147-US	3229
27520	7590	06/15/2004	EXAMINER	
FORMFACTOR, INC. LEGAL DEPARTMENT 2140 RESEARCH DRIVE LIVERMORE, CA 94550			LEE, BENNY T	
			ART UNIT	PAPER NUMBER
			2817	

DATE MAILED: 06/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.



UNITED STATES DEPARTMENT OF COMMERCE
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☐ This application has been examined ☒ Responsive to communication filed on 25 March 2004 ☐ This action is made final.

A shortened statutory period for response to this action is set to expire Two (2) month(s), 2 days from the date of this letter.
Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133

Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited by Examiner, PTO-892. | 2. <input type="checkbox"/> Notice re Patent Drawing, PTO-948. |
| 3. <input type="checkbox"/> Notice of Art Cited by Applicant, PTO-1449. | 4. <input type="checkbox"/> Notice of Informal Patent Application, Form PTO-152 |
| 5. <input type="checkbox"/> Information on How to Effect Drawing Changes, PTO-1474. | 6. <input type="checkbox"/> _____ |

Part II SUMMARY OF ACTION

1. ☒ Claims 2-4, 6, 7, 9-25, 39, 43, 45-54, 56-26 are pending in the application.

Of the above, claims _____ are withdrawn from consideration.

2. ☒ Claims 4, 37, 38, 44, 55 have been cancelled.

3. ☒ Claims 2-4, 6, 9, 16, 17, 18-22, 43, 11-13, 22, 14, 15, 23-25, 43, 61, 6, 7, 10, 45, 47, 46, 39,
48, 62, 49, 50-54, 56-58, 59 are allowed.

4. ☐ Claims _____ are rejected.

5. ☐ Claims _____ are objected to.

6. ☐ Claims _____ are subject to restriction or election requirement.

7. ☐ This application has been filed with informal drawings under 37 C.F.R. 1.85 which are acceptable for examination purposes.

8. ☐ Formal drawings are required in response to this Office action.

9. ☐ The corrected or substitute drawings have been received on _____. Under 37 C.F.R. 1.84 these drawings are ☐ acceptable; ☐ not acceptable (see explanation or Notice re Patent Drawing, PTO-948).

10. ☐ The proposed additional or substitute sheet(s) of drawings, filed on _____, has (have) been ☐ approved by the examiner; ☐ disapproved by the examiner (see explanation).

11. ☐ The proposed drawing correction, filed _____, has been ☐ approved; ☐ disapproved (see explanation).

12. ☐ Acknowledgement is made of the claim for priority under U.S.C. 119. The certified copy has ☐ been received ☐ not been received
☐ been filed in parent application, serial no. _____; filed on _____.

13. ☒ Since this application appears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.

14. ☐ Other

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This application is in condition for allowance except for the following formal matters:

In the Specification:

The disclosure is objected to because of the following informalities: Page 12, in replacement paragraph [0030], fifth line therein, note that “14(6) and 14(7)” should correctly be --14(6), 14(7) and 14(8)—for consistency with the corresponding drawing figure. Page 15, in replacement paragraph [0039] fourth line therein, note that a --,-- should be inserted after “include” and “limitation”, respectively for grammatical correctness.

Page 17, in the formulae, note that some of the parameters in the equation remain undefined.

Page 18, it is again noted that the remainder of paragraph [0044], the entirety of paragraph [0045] and the start of paragraph [0046] appear to be missing from the specification as presented. Applicant should refer to the attached appendix including copies of pages 17 & 18 of the original specification. Note that paragraph [0044] starts at the bottom of page 17 and includes the equation and a partial description of equation terms. However, as evident from the copy of page 18 of the original specification, the description of equation parameters do not continue at the top of page 18, as would be normally expected. Furthermore, note that the first full paragraph on page 18 is designated as paragraph “[0047]”, and not paragraph --[0045]-- as would normally expected. Accordingly, the examiner must assume that at least parts of paragraphs [0044], [0045] & [0046] are missing from the original specification, thereby warranting the above objection.

Clarification is required. Page 24, paragraph [0064], sixth line therein, note that it is again suggested that --(I/O)-- be inserted prior to “interface 94” such as to be consistent with the corresponding drawing figure. Page 26, paragraph [0068], fourth & fifth lines therein, note that reference label “112(3)” appear to be improperly used to designate different features [i.e.

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integrated circuit (fourth line) and memories (fifth line)]. Clarification is needed. Page 26, in replacement paragraph [0069], fifth line therein, note that “resonate” should correctly be --resonant--. Note that generic reference label “90” should be rewritten to include the --(1) ... (x)-- designations for consistency with the corresponding drawing figure. Appropriate correction is required.

In the Drawings:

The drawings are objected to because of the following: In fig. 9, note that reference labels “62(1) ... 62(x)” still need to be labeled herein such as to be commensurate with the specification description; In Fig. 15, note that reference labels --112-- & --118-- still need to be labeled herein for consistency with the specification description of these drawing figures.

Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as “amended.” If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled “Replacement Sheet” in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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In the Claims:

The following claims have been found objectionable for reasons set forth below:

In claim 46, last paragraph, note that "each" should be rephrased as --a respective one-- and --a corresponding-- should precede "one" for a proper characterization of this aspect of the invention.

In claim 57, line 4, note that "electromagnet" should correctly be --electromagnetic--.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Claims 2-4, 60, 9, 16, 17, 18-22, 43, 11-13, 22, 14, 15, 23-25, 43, 61; 6; 7; 10; 45, 47; 46, 39; 48, 62, 49, 50-54, 56-58; 59 are allowable over the prior art of record.

Any inquiry concerning this communication should be directed to Benny Lee at telephone number 571 272 1764.

B. Lee


BENNY T. LEE
PRIMARY EXAMINER
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